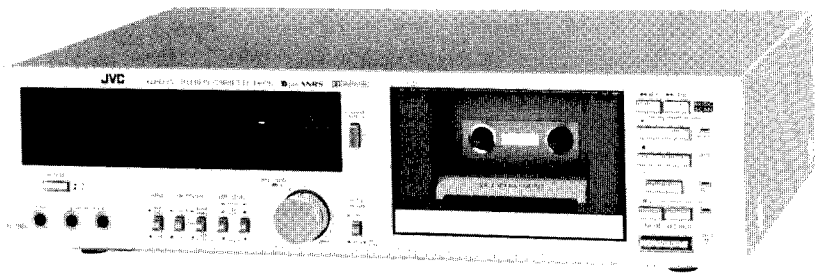
JVC

SERVICE MANUAL

MODEL

KD-D35 A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4202
June 1981

Contents

	Page
Specifications	2
Features	3
Controls and Connections	3
Main Parts Location	4
Removal of the Main Parts	5
Block Diagram	6
Wiring Connection	7
Standard Schematic Diagram	8
Integrant Circuit	9
Maintenance	9
Safety Precautions	10
Main Adjustments	10
Enclosure Assembly and Electrical Parts List	14
Enclosure Assembly and Electrical Parts	17
Mechanical Component Parts	18
Mechanical Component Parts List	19
Main P.W. Board Parts List	22
Main Amp P.W. Board Parts	24
Other P.W. Board Parts, Parts List	25
Packing, Packing Material Parts List	27
Accessories	Back cover

Specifications

Type : Component stereo cassette deck
Track system : 4-track, 2-channel
Tape speed : 1-7/8 inch/sec (4.8 cm/sec)
Frequency response:
(0 dB recording)
Metal tape *1 ; 30 – 12,500Hz (± 3dB)
SA/Chrome tape *2 ; 30 – 8,000Hz (± 3dB)
SF/Normal tape *3 ; 30 – 8,000Hz (± 3dB)
(-20 dB recording)
Metal tape *1 ; 20 – 18,000Hz
(30 – 16,000Hz ± 3dB)
SA/Chrome tape *2 ; 20 – 18,000Hz
(30 – 16,000Hz ± 3dB)
SF/Normal tape *3 ; 30 – 17,000Hz
(30 – 15,000Hz ± 3dB)
Note: *1 ... JVC ME or Equivalent
*2 ... TDK SA or Equivalent
*3 ... MAXELL UD or Equivalent
S/N ratio : 58 dB (S = 1kHz, K3 = 3%, N = A-weighted, Metal tape)
The S/N is improved by 5dB at 1kHz and by 10dB above 5kHz with ANRS/Dolby B NR on.
Effect of Super ANRS : (normal tape)
Improvement of S/N : the same as with ANRS/Dolby B NR
Improvement of frequency response:
0 dB recording; 6dB at 10kHz
+5 dB recording; 12dB at 10kHz
Improvement of distortion:
0 dB recording; 3% or less at 10kHz
+5 dB recording; 3% or less at 10kHz
Wow and flutter : 0.05% (WRMS)
0.16% (DIN 45 500)
Crosstalk : 65dB (1kHz)
Harmonic distortion : K3; 0.5% THD; 1.0%
(metal tape, 1kHz 0 dB)

Bias : AC bias
Erasure : AC erasure
Heads : METAPERM head for recording/playback, 2-gap Ferrite head for erasure
Motor : Electronic governed DC motor
Fast forward time : 105 sec with C-60 cassette
Rewind time : 105 sec with C-60 cassette
Semiconductors : 7 ICs, 30 transistors, 28 diodes, 19 LEDs

Input terminals
Mic jack x 2 : Max sensitivity; 0.2mV (-72dBs)
Matching impedance; 600Ω – 10kΩ
Input jack x 2 : Min. input level; 80mV (-20dBs)
Input impedance; 100kΩ

Output terminals
Output jack x 2 : Output level; 300mV
Output impedance; 5kΩ
Phones jack x 1 : Output level; 0.3mW (8Ω)
Matching impedance; 8Ω – 1kΩ
DIN socket : Min. input level; 0.1 mV/kΩ
Input impedance; 10kΩ
Output level; 300 mV
Output impedance; 5kΩ
Matching impedance; 50kΩ or more
Power requirement : AC 240/220/120 V, 50/60 Hz (KD-D35A/B/C/E/J)
AC 240/220/120/100 V, 50/60 Hz (KD-D35U)
Power consumption : 17 W
Dimensions : 16-1/2" (420 mm) W
4-3/8" (110 mm) H
11 5/8 (300 mm) D
Weight : 11.2 lbs (5.1 kg)

Design and specifications are subject to change without notice.

Features

*Soft-touch one motor mechanical logic operation mechanism
*Single music scan system
*Super ANRS/ANRS moise reduction system
*Rewind auto-play
*QUE & review facility
*2-color, 7-point L.E.D peak level indicator
*Metal tape compatible
METAPERM-R/P head & 2-gap ferrite head for erase
Timer standby facility

Controls and Connections

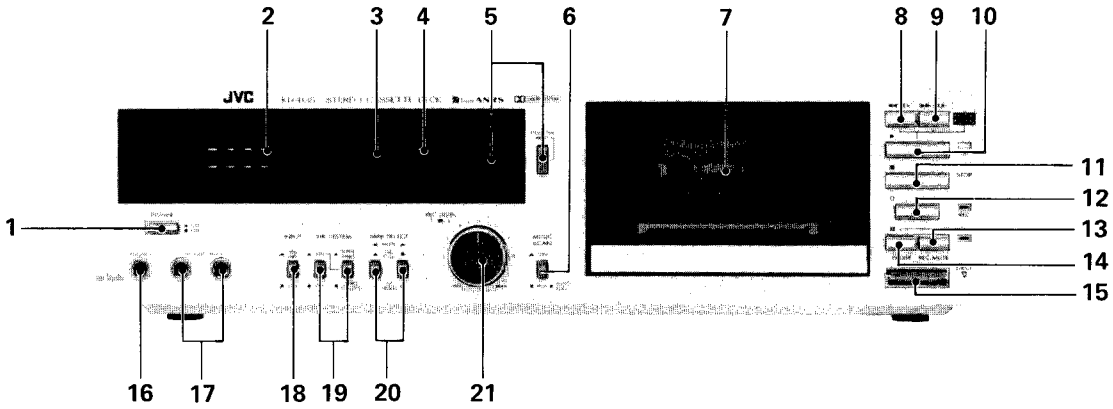


Fig. 1

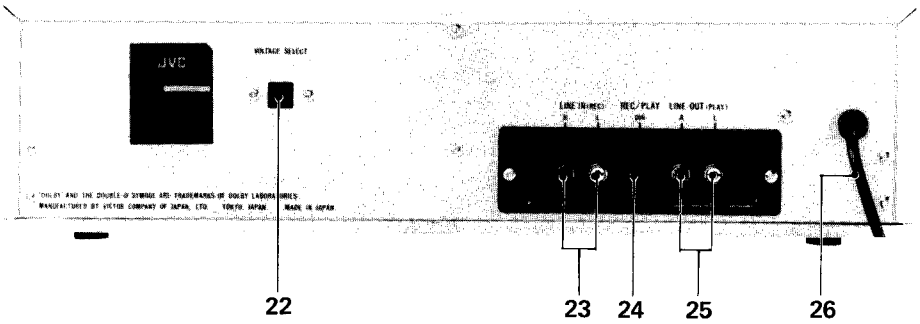


Fig. 2

1 POWER switch
2 PEAK LEVEL indicator
3 SUPER ANRS indicator
4 POWER indicator
5 Tape counter/Counter reset button
6 MUSIC SCAN switch (ON – REW → AUTO PLAY)
7 Cassette holder
8 ◀◀ REV (Review) button
9 ▶▶ CUE button
10 ▶ PLAY button with indicator
11 ■ STOP button
12 ○ REC (Record) button with indicator
13 REC MUTE button
14 ❚❚ PAUSE button with indicator
15 ▼ EJECT button
16 PHONES (Headphone) jack
17 MIC (Microphone) jacks
18 INPUT select switch ($\frac{\text{MIC}}{\text{DIN}}$ – LINE)
19 NR SYSTEM switches
(OFF – $\frac{\text{ANRS}}{\text{DOLBY B}}$ – Super ANRS)
20 TAPE SELECT switches
($\frac{\text{SF}}{\text{NORM}}$ – $\frac{\text{SA}}{\text{CrO}_2}$ – METAL)
21 REC LEVEL controls
(L – left channel, R – right channel)
22 VOLTAGE SELECT switch
23 LINE IN (REC) terminals
24 REC/PLAY (DIN) socket
25 LINE OUT (PLAY) terminals
26 Power cord

Main Parts Location

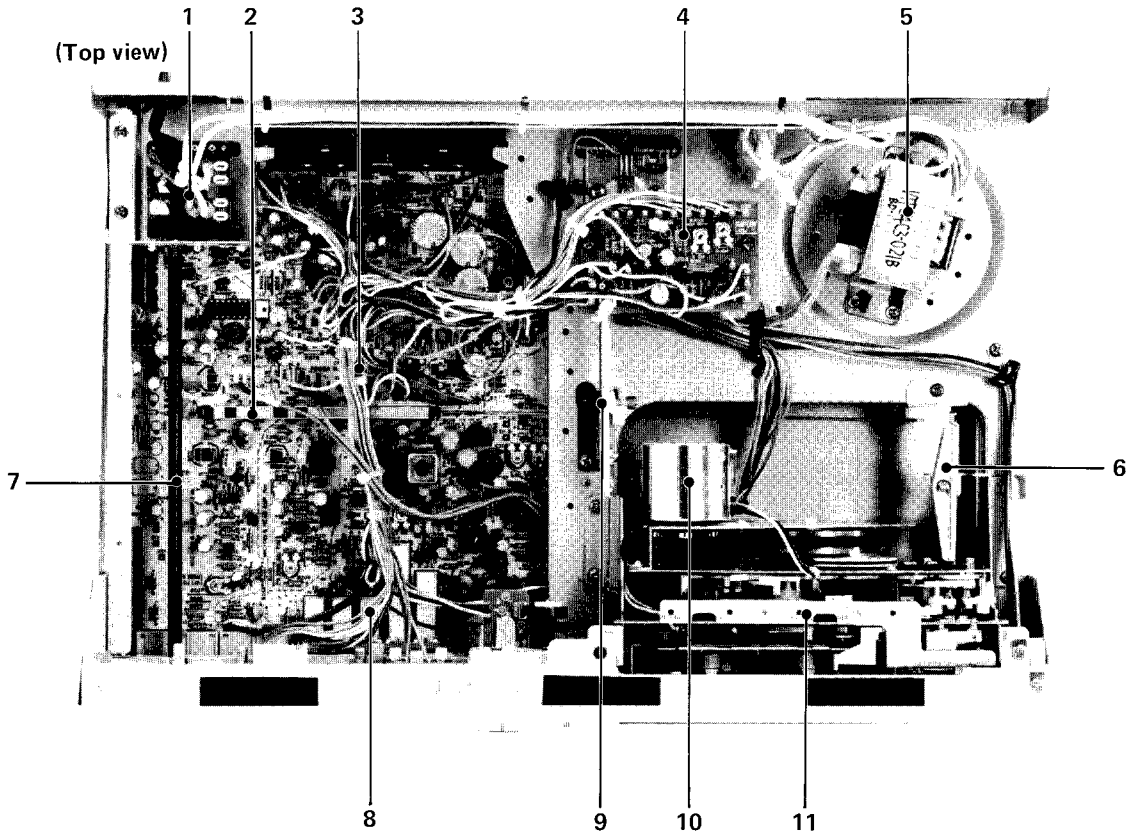


Fig. 3

Mechanical parts are the same as location of model KD-D3. Please refer to the service manual of KD-D3A/B/C/E/J/U (No. 4196 – page 4).

1. Power switch P.W.B. ass'y
2. Rec/P.B switch
3. Main Amp. P.W.B. ass'y
4. Meter adj. & Auto stop P.W.B
5. Power transformer
6. Recording arm bracket
7. Power switch remote bar
8. Select switches
9. Gear-oiled damp bracket
10. Motor
11. Mechanical assembly

Removal of the main parts

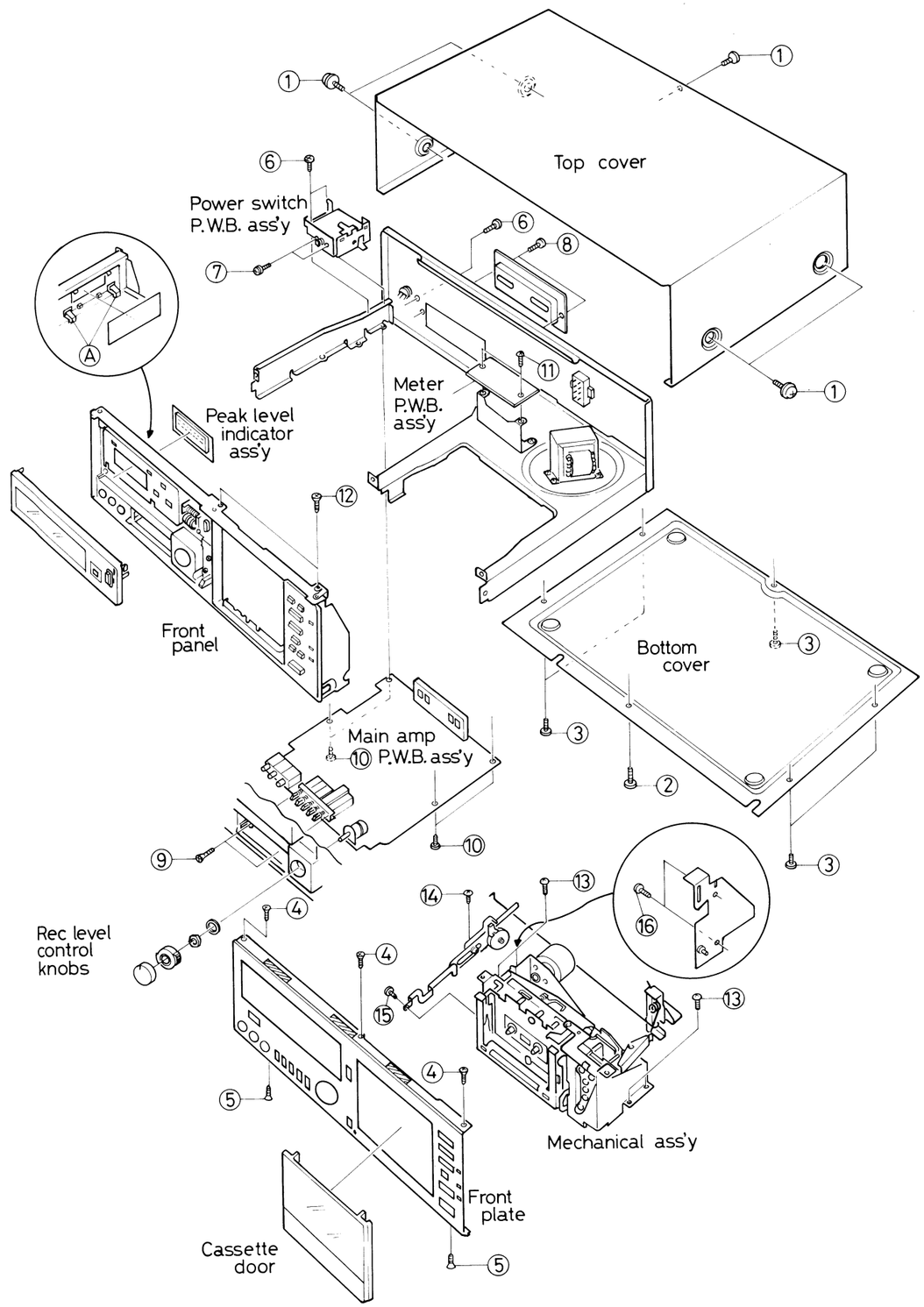


Fig. 4

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a deck design aimed mainly at compactness and high performance.

Enclosure assembly parts

1. **Cassette door**
   Push the EJECT button to open the cassette door. Slide off the cassette door upwards to unlock its pawls of both sides.
2. **Top cover**
   Remove 5 screws ① fastening the top cover.
   (4 screws on both sides and a screw on rear side)
3. **Bottom cover**
   1) Remove a screw ② (SDSP3008R) fastening the bottom cover on the front.
   2) Remove 5 screws ③.
4. **Front plate assembly**
   Remove 5 screws (3 screws ④ on upper side and 2 screws ⑤ on bottom side).

Electrical parts

When removing wire clamp (QHX2075-001), cut off it, and when clamping wires, use a new parts.

1. **Power switch P.W.B. assembly**
   Remove 3 screws ⑥ fastening the bracket (inclose a screw for the rear cover).
   Remove 2 screws ⑦ fastening the switch.
2. **Main amplifier P.W.B. assembly**
   1) Remove 2 screws ⑧ fastening the pin jacks cover.
   2) Remove 2 screws ⑨ fastening the switches ass'y to front panel.
   3) Pull off REC LEVEL control knobs to front side, and remove a nut and a washer fastening REC LEVEL VR to front panel.
   4) Remove 4 screws ⑩ fastening the main amp. P.W.B.
   5) Remove a wire for REC/PB select switch.
3. **Meter P.W.B. assembly**
   Remove 2 screws ⑪ fastening the meter P.W. board.
4. **Peak level indicator P.W.B.**
   Remove 2 pawls Ⓐ holding its indicator P.W.B. on under side.

Mechanical assembly

1. Remove 2 screws ⑫ fastening the mecha. ass'y on the front panel (upper side).
2. Remove 4 screws ⑬ fastening the mecha. bracket to chassis (each 2 pcs. on both sides).
3. Remove a screw fastening the gear-oiled damper ⑭ to chassis.
4. Remove a screw fastening the gear-oiled damper ⑮ to cassette holder.
   When removing the cassette holder, remove 2 screws ⑯ fastening the left bracket.
5. Remove the counter belt.
6. Open the wire clamp for heads wires on bottom side.

Mechanical parts

1. **REC/PB head**
   Remove a screw ①.
   Work loose a screw ② for adjustment.
2. **Erase head**
   Remove a screw ③.
   Remove a screw ④ for adjustment.
3. **Pinch roller arm ass'y**
   Remove an E-ring ⑤ holding its assembly.
   Pull it off from the shaft.
4. **Supply reel disc ass'y**
   Pull out the reel disc stopper ⑥ and remove its disc from the shaft.
5. **Take-up reel disc**
   Pull out the reel disc stopper ⑦ and remove the counter belt, pull out its disc from the shaft.

Note: 1) Remove the reel disc stoppers with a piece of sheet metal inserted between the reel disc and stopper, when assembling the reel disc, the stopper needs a new parts (the stopper cannot be used again).
2) Be careful not to stain the counter belt.

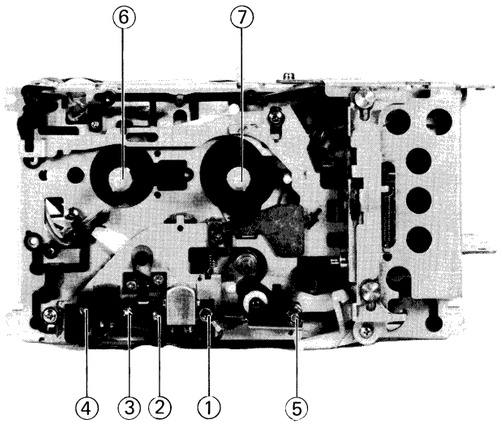


Fig. 5

6. Motor

1) Remove the main belt and take up belt.
2) Remove a screw ⑧ fastening the rubber stopper.
3) To remove the motor, turn it to counter-colockwise direction.

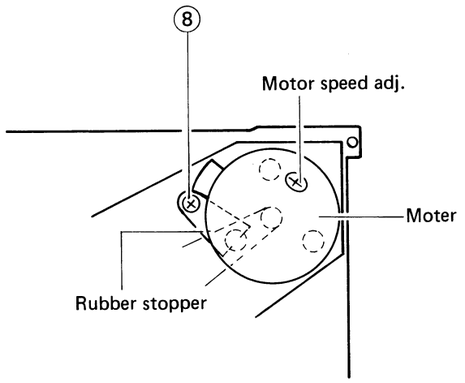


Fig. 6

When removing the motor, beltes hold 4 bosses (each 2 bosses) from the motor pulley as following figure. Because, when replacing the motor, beltes can be assembled easy to the motor pulley.

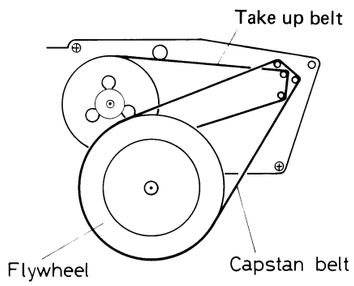


Fig. 7

Block Diagram

Recording system

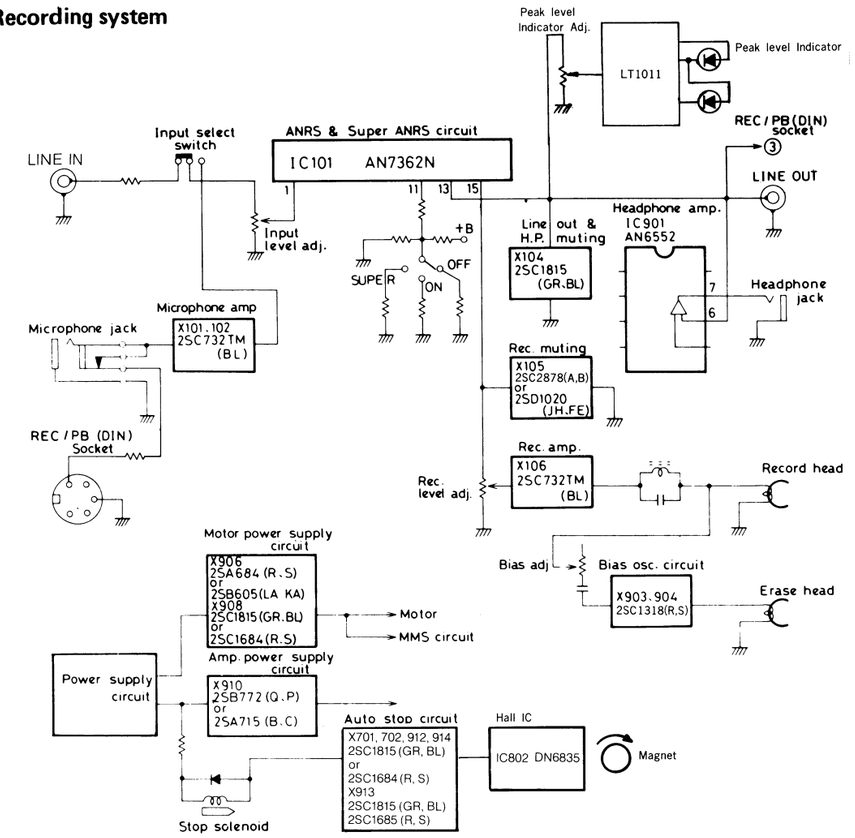


Fig. 8

Playback system

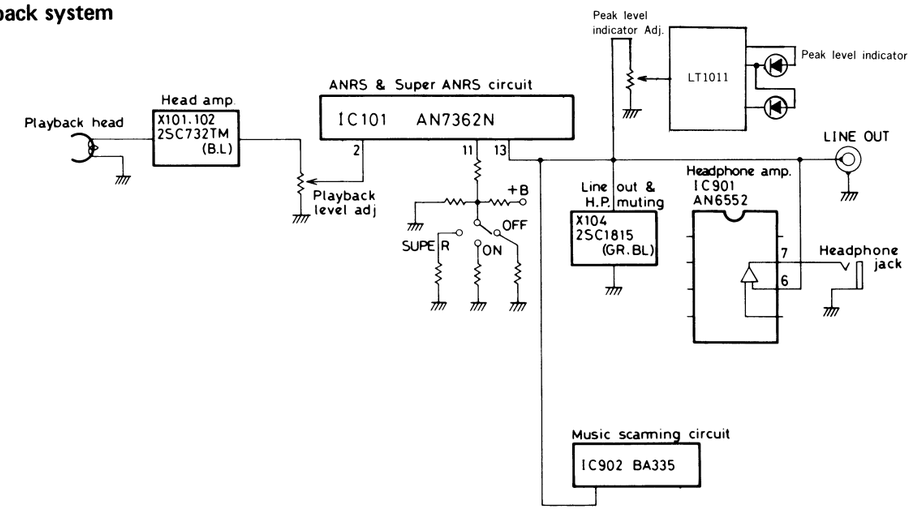


Fig. 9

Wiring Connection

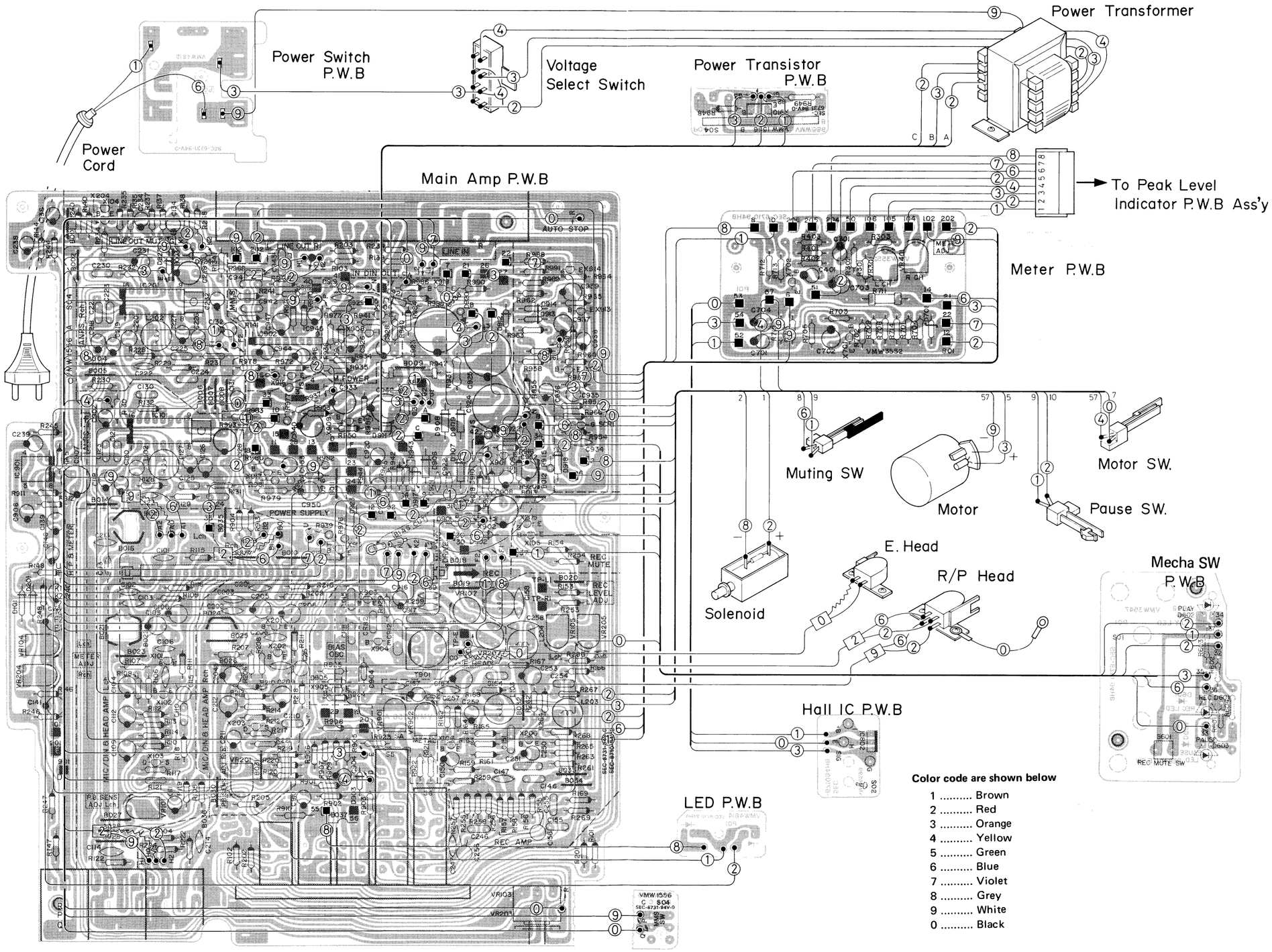
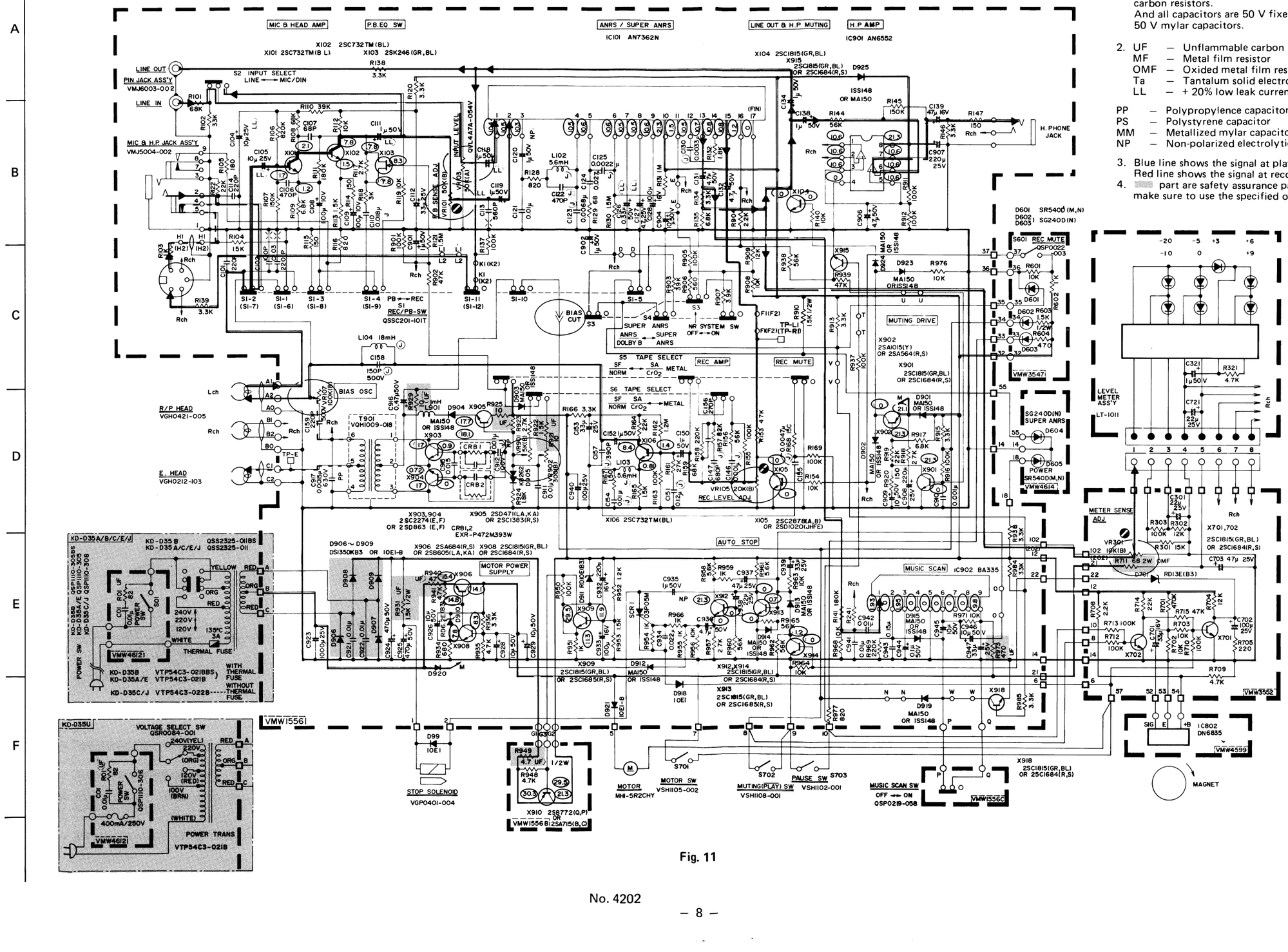


Fig. 10

Standard Schematic Diagram of KD-D35



NOTES:

1. Unless otherwise specified, all resistors are 1/4 W, ± 5% carbon resistors.
   And all capacitors are 50 V fixed ceramic capacitors or 50 V mylar capacitors.

2. UF — Unflammable carbon resistor
   MF — Metal film resistor
   OMF — Oxided metal film resistor
   Ta — Tantalum solid electrolytic capacitor
   LL — + 20% low leak current electrolytic capacitor

   PP — Polypropylence capacitor
   PS — Polystyrene capacitor
   MM — Metallized mylar capacitor
   NP — Non-polarized electrolytic capacitor

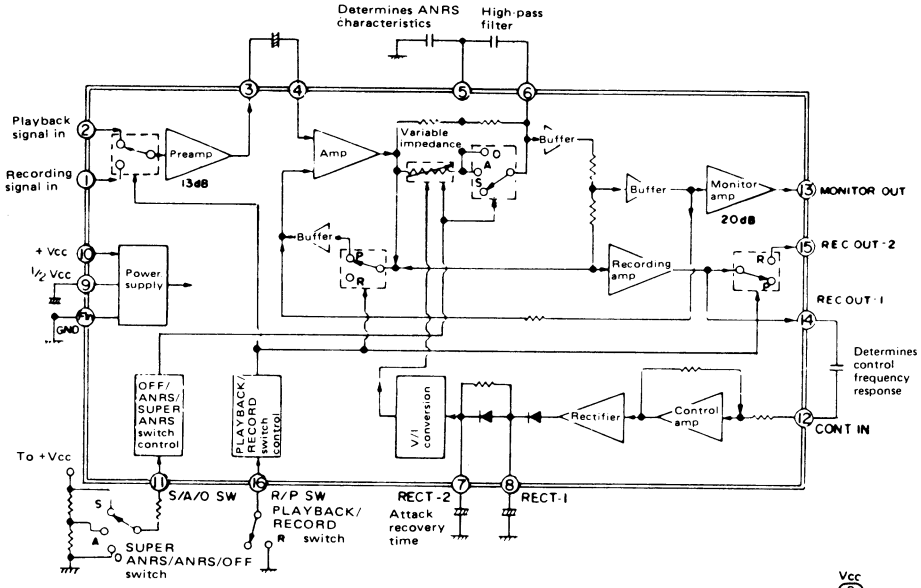
3. Blue line shows the signal at playback.
   Red line shows the signal at recording, and +B circuits.
4. ▩ part are safety assurance parts. When replacing those parts, make sure to use the specified one.

Fig. 11

Integrant Circuit

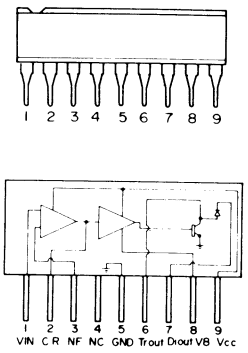
IC101, 201 AN7362N ANRS & Super ANRS

Block diagram



IC-902 BA335

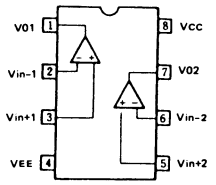
(Side view)



IC901 AN6552

Headphone amp.

(Top view)



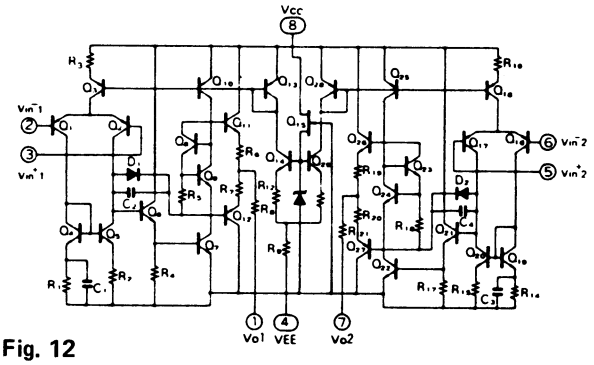


Fig. 12

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long use, the heads and tape part – capstan, pinch roller, etc. – will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head.
(It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

Do the same method as heads.

3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.

* Do not use thinner or benzine.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they become magnetized.
A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

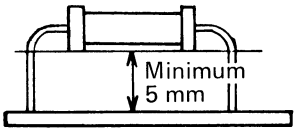
1. Turn the POWER switch OFF.
2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head. Gradually move it away from the head and switch it off at a distance of more than 30 cm. (12")
4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.

* Do not bring a magnetized metallic object (a screwdriver, for example) near the head as this will increase noise.

Safety precautions

⚠ Safety mark

Safety is very important with this unit. When replacing the parts marked ⚠, be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.
The wiring of the primary side should be wound more than one and half times, then soldered.



To protect the circuit board from burning while in use.

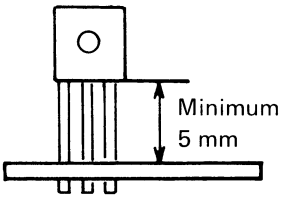


Fig. 13

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

1) Electronic voltmeter
2) Audio frequency oscillator
(range: 50—20kHz and output 0dB with impedance 600Ω)
3) Attenuator
4) Standard tapes for REC/PB
Maxell UD — SF tape
TDK SA — SA tape } or equivalent
JVC ME — Metal tape
5) Reference tapes for playback (JVC Test Tape)
VTT-658 (for head azimuth adj.)
VTT-656 (for motor speed, wow flutter adj.)
VTT-664 (for Reference Level 1kHz)
VTT-675N (for playback frequency response)
6) Resistors
600Ω (for attenuator matching)

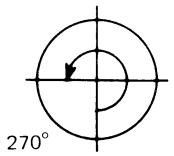
2. Mechanical adjustment

1) Torque testing cassette gauge
2) Blank tape (C-120) for tape running checker.

[II] Adjustment and repair of the mechanism

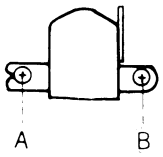
Tape-to-head contact adjustment

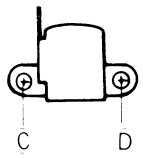
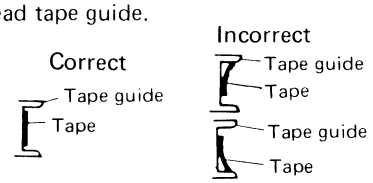
1) Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 270° (a ¾ revolution).



2) Check the tape-to-head contact using a C-120 tape having pads.
3) Check it again with a Metal tape.
Checking method:
Record a 400Hz or 1kHz signal with 0VU + 20dB.
Erase the recording. Checking if the erasing is satisfactorily performed.
4) After adjustment, apply screw bond on the adjusting screw to prevent its loosening.

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/playback head position 	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Playback the VTT-658 test tape. 3. Adjust the head angle with the screw Ⓐ until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond.	Screw Ⓐ	Maximum	If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. If the output difference between the left and right channels exceeds 3—4dB, the head is defective. Replace it with a new one.

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting erase head height 	Turn the screw Ⓓ for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 270° (a ¾ revolution). Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw Ⓒ until the tape runs in the center of the erase head tape guide. 	Screw Ⓒ		Be sure to perform this adjustment after replacing the erase head.
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Playback the VTT-656 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000Hz.	Semi-fixed resistor in the motor	3000Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking playback torque	Employ a torque testing cassette tape for the checking.		40—70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 80gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 80gr-cm	If the standard torque is not obtained, clean the capstan belt, motor pulley, flywheel circumference, supply reel disc circumference, etc.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Playback the VTT-656 test tape. Check to see if the reading of the meter is within 0.05% (WRMS).			If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.
Checking music scan	1. Play back the TMT-6247 test tape at music scan mode. When pushing REW and PLAY buttons or CUE and PLAY buttons, check to do music scan. 2. When playback the TMT-6237, check to no music scan.	Checking REW → AUTO PLAY		Set REW/AUTO PLAY switch. When operating PLAY or REW mode, check to playback, after stopping at tape end.

[III] Electrical adjustment location

Main Amp P.W. Board (parts ass'y side view)

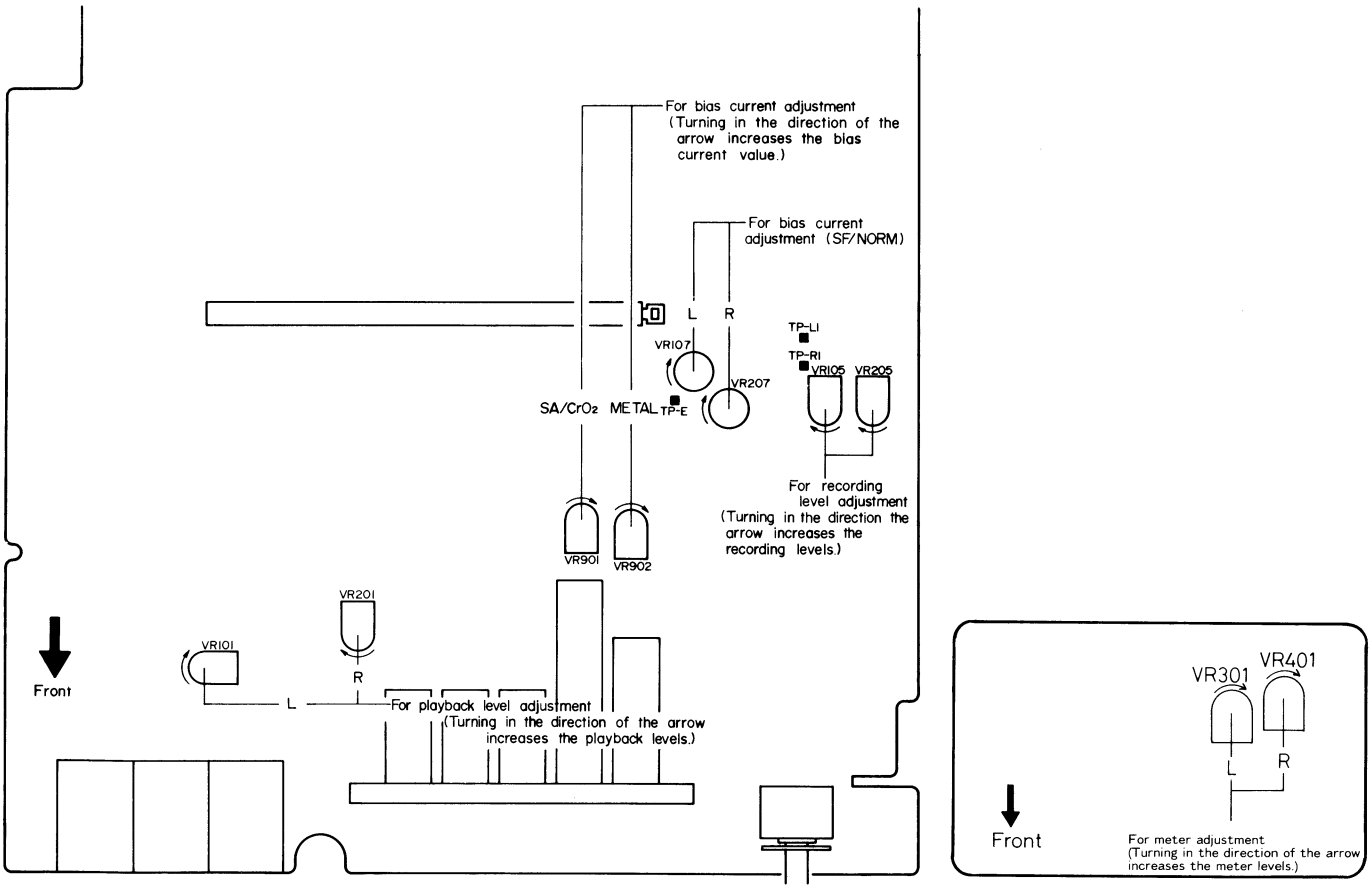

For bias current adjustment (Turning in the direction of the arrow increases the bias current value.)
For bias current adjustment (SF/NORM)
L R
TP-LI
TP-RI
VR107
VR207
VR105 VR205
SA/CrO2 METAL TP-E
For recording level adjustment (Turning in the direction the arrow increases the recording levels.)
VR901
VR902
VR201
VR101
Front
R
L
For playback level adjustment (Turning in the direction of the arrow increases the playback levels.)
VR301 VR401
L R
Front
For meter adjustment (Turning in the direction of the arrow increases the meter levels.)

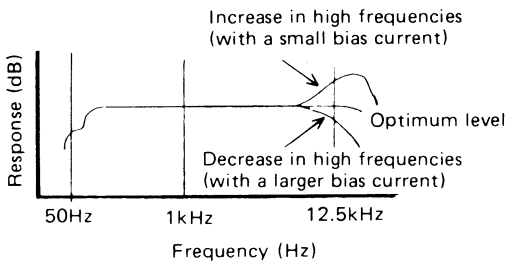
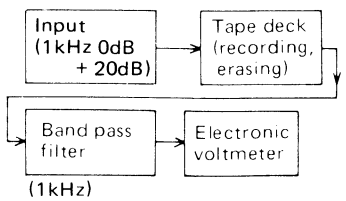
Fig. 14

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

Adjustment should be performed in the order of steps 1,2, 3, ... Perform this adjustment with the ANRS switch set to OFF.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1*	Adjusting playback level	1. Play back the VTT-664 Reference tape (1kHz) with the tape select switch set to the SF/NORM position 2. Adjust VR101 and VR201 until the LINE OUT becomes about –8dBs.	VR101 201	–8dBs.	This adjustment becomes necessary when a change in playback level results (for example, due to head replacement).
2*	Adjusting peak level indicator	1. Set the cassette deck to its recording mode. 2. Apply a 1 kHz, approx. –10 dBs signal to the LINE IN terminals. 3. Adjust the recording level controls until the signal is available at –8 dBs at the LINE OUT terminals. 4. Adjust VR301 and VR401 until the indicator becomes to 0 dB.	VR301, VR401,	0 dB	Perform the adjustment when the parts are replaced.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
3*	Checking record/ playback frequency response	Record 1kHz, 50Hz and 12.5kHz signals at an input level of 0dB to -20dB. Play back the tape. Check to see that the 50Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1kHz signal output as a reference. 	For SF/ NORM tape; VR107 207 For SA/ CrO2 tape; VR901 For Metal tape; VR902	Reference frequency; 1kHz 0 ± 3dB at 50Hz 0 at 12.5kHz	This checking should be performed for normal, chrome and metal tapes and for both right and left channels. 1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. The current measuring method described below is an alternative one. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown left.
4	Adjusting recording level	1. Apply a 1kHz, approx. -10dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at −8 dBs at the LINE OUT terminals. 2. After checking to see if the Peak level indicator become 0, record the signal applied to both left and right channels using normal tape. 3. Play back the recording part. Perform the recording signal adjustment with VR105 and VR205 so that the peak level indicator become 0.	VR105, 205	0 VU	The level difference between left and right channels for SF/NORM tape, chrome tape and metal tape should be less than 1dB. Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO2 and metal tapes, should be less than 1.5dB, and that between left and right channels should also be less than 1dB.
5	Checking record/ playback signal distortion	1. Record a 1kHz, −8dBs signal to LINE IN terminals and perform recording with the peak level indicator become 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		SF/NORM tape; Less than 2.5% SA/CrO2 tape; Less than 3%	Be sure to perform this adjustment following bias current and recording level adjustments.
6	Checking signal to noise ratio in recording/playback	1. Record a 1kHz, 0dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		Metal tape; Less than 2% SF/NORM, SA/CrO2 and Metal tapes; More than 42dB	Apply an output (-72dBs) to the MIC terminals with the recording level controls set to maximum so that the peak level indicator become 0.
7	Checking erasing coefficient	1. Apply a 1kHz signal to the LINE IN terminals. Adjust the recording level controls until the peak level indicator become 0. 2. Perform recording with the signal enhanced by 20dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 65dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter. 
8	Check Auto stop	Hold less than 1 ± 0.5mm gap to the magnet from the hall IC.			

Enclosure Assembly and Electrical Parts List
(Except P.W. Board Parts)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
1 ~ 4		ZCKD35Y-CBF	Front Plate Ass'y		1
1		VJC1180-001	Front Plate		1
2		VJK3182-001	Finder		1
3		VJD4512-001	Escutcheon		1
4		VJD4492-001	"		1
5		VXP4087-001	Push Button	Power	1
6		VKW4265-002	Button Spring	"	1
7		VKS4003-004	Pipe	"	1
8		VXP4088-003	Push Button	Tape Selector	5
9		" -003	"		1
10		VXL4146-001	Knob	Volume (R)	1
11		VXL4147-001	"	" (L)	1
12		VJD2173-001	Escutcheon	Mecha.	1
13		VXP4121-001	Push Button	"	3
14		VXP4122-001	"	"	1
15		VXP4123-001	"	"	2
16		VXP4124-001	"	Rec. Mute	1
17		VXQ4043-001	Eject Button		1
18		VKS4343-001	Button Guide		1
19		VKL4991-001	Rec. Arm (1)		1
20		VKL4983-00C	Mecha. Bracket Ass'y (L)		1
21		VKZ4143-002	Screw	Mecha.	2
22		VJT3067-001	Cassette Lid		1
23		VJT2049-004	Cassette Holder		1
24		VJT4035-003	Holder Plate		1
25		VKL3307-00A	Holder Bracket Ass'y		1
26		VJD3237-004	Tape Holder (R)		1
27		VJD3238-004	" (L)		1
28		VKL3296-00B	Holder Plate Ass'y		1
29		VJD4493-001	Disk Plate		1
30		VKL4985-00A	Cross Bar Ass'y (R)		1
31		VKL4986-00A	" (L)		1
32		VKL5018-00A	Arm Bracket Ass'y		1
33-1		VKW4250-005	Holder Spring		1
33-2		" -006	"		1
34		VKL4644-00B	Gear Frame Ass'y		1
35		VKS4352-001	Spur Gear		1
36		VKS4109-004	Brake Drum		1
37		VKS3102-001	Rack Plate		1
38		VKH4123-001	Collar		1
39		VKS4110-002	Brake Arm		1
40		VKL4271-001	Rubber Retainer		1
41		VKZ4111-001	Rubber Tire		1
42		VKZ4001-010	Wire Holder		1
43		VJD2178-001	LED Escutcheon	for LED	1
44		VJK4146-001	LED Lens		1
45		VXP4138-001	Push Button	Counter	1
46		VKC5146-001T	Counter		1
47		VKB3000-008H	Belt	Counter	1
48		VYSR1R5-009	Spacer	"	3
49		VJC1132-001	Top Cover		1
50		VKZ3001-002	Special Screw		4
51		VJC1133-002	Bottom Cover		1
52		VJF4003-002	Foot		4
53		VJD3213-002	Jack Escutcheon		1
54		VKL5033-001	Earth Lug	Front Plate	1
55		VYN2086-002PA	Name Plate	KD-D35A	1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
55		VYN2086-001PA	Name Plate	KD-D35B	1
		" -003PA	"	KD-D35C	1
		" -004PA	"	KD-D35E	1
		" -005PA	"	KD-D35J	1
		" -006PA	"	KD-D35U	1
56		QHX2075-001	Wire Clamp		2
57		VND4001-004	Caution Label		1
58		VJC1181-001	Front Panel	KD-D35A/B/E/U	1
		" -002UL	"	KD-D35C/J	1
59		VKL1198-001	Amp Chassis (R)		1
60		VKL3257-002	" (L)		1
61		VKL3297-001	Power Bracket	Power Switch	1
62	⚠	VTP54C3-021B	Power Transformer	KD-D35A/E	1
	⚠	" -021BBS	"	KD-D35B	1
	⚠	" -022B	"	KD-D35C/J	1
	⚠	VTP54U3-021B	"	KD-D35U	1
63		VKZ4001-011	Wire Holder		4
64		VJC1134-005	Rear Panel		1
65	⚠	QMP2560-200	Power Cord	KD-D35A	1
	⚠	QMP9017-008BS	"	KD-D35B	1
	⚠	QMP1200-200	"	KD-D35C/J	1
	⚠	QMP3900-200	"	KD-D35E	1
	⚠	QMP7600-200	"	KD-D35U	1
66	⚠	QHS3876-162	Strain Relief	KD-D35A/C/E/J/U	1
	⚠	QHS3876-162BS	"	KD-D35B	1
67	⚠	QSS2325-011	Voltage Select Switch	KD-D35A/C/E/J	1
	⚠	" -011BS	"	KD-D35B	1
	⚠	QSR0084-001	"	KD-D35U	1
68		VKL4275-001	Bracket	KD-D35U	1
69		VKL5030-001	"		1
70		VKL4990-00A	Rec. Bracket Ass'y		1
71		VKS4344-001	Rec. Arm (2)		1
72		Q03093-405	Spacer		1
73		VKW4281-002	Rec. Wire		1
74		QHX2075-001	Wire Clamp	for Blind	6
75	⚠	TAZ000331-02	Fuse Holder	KD-D35U	2
76	⚠	QMF51R2-R40	Fuse	"	1
77		VND4003-025	Fuse Label	"	1
78	⚠	TAW000504-01	Wire Connector	Power Cord KD-D35U	1
79		T47818-002	Spacer		1
80		VYSR105-002	Spacer		2
101		VKY4217-001	C. Spring (R)		1
102		VKY4218-001	" (L)		1
103		VKW3001-070	Comp. Spring		1
104		" -062	"		1
105		VKW3006-016	Torsion Spring	Rec. Arm (2)	1
106		VKW4106-001	"		1
109		Q03093-524	Washer		1
110		WBS3000	"	for Earth	1
111		WNS2600Z	"	Spur Gear	1
112		WNS3000Z	"	Power Transformer	4
114		REE2000	E-Ring	Arm Bracket Ass'y x 1, Spur Gear x 2	3
115		REE2500	"	Rec. Arm (1) x 1, Cross Bar Ass'y (L) x 4	5

Ref. No.		Parts No.	Parts Name	Remarks	Q'ty
116		REE3000	E-Ring	Rec. Arm (2)	1
117		LPSP2604R	Screw	Arm Bracket Ass'y	1
118		LPSP2608Z	"	Rack Plate	1
119		LPSP3006ZS	"	Switch	2
120		"	"	KD-D35U, Bracket	2
121		SBSB3006C	"	Mecha. Bracket	4
122		SBSB3006V	"	Main P.W. Board x 3, P.W. Board x 2	5
123		SBSB3006Z	"	LED Escutcheon x 1, Power Bracket x 2, Wire Holder x 4, Heat Sink x 2, Bracket x 1, Rec. Bracket Ass'y x 1	11
124		SBSB3008Z	"	Earth	1
125		SSSF3008Z	"	Push Button	2
126		SDSB3008Z	"	Power Transformer	4
127		SDSF2605R	"	Tape Holder (R) x 3, Tape Holder (L) x 3	6
128		SDSF3012Z	"	Bottom Cover	1
129		SDST3006Z	"	"	5
130		SDST3008R	"	Top Cover x 1, Jack Escutcheon x 2	3
131		SDST3008RS	"	Rear Panel	6
132		SDSP3006RS	"	Voltage Selector	2
133		SHSA2608Z	"	Counter	2
134		SSSB3006Z	"	Front Panel	5
135		SSSB3010Z	"	Mecha. Bracket	1
136		SSSF3008Z	"	Front Plate	5
137		SSSP3006V	"	Main P.W. Board	3

Enclosure Assembly and Electrical Parts

(Except P.W. Board Parts)

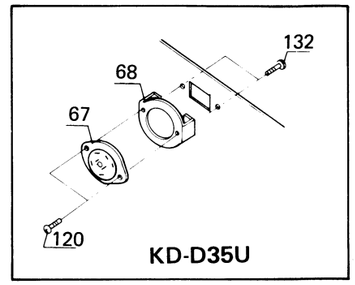


Fig. 15

Mechanical Component Parts

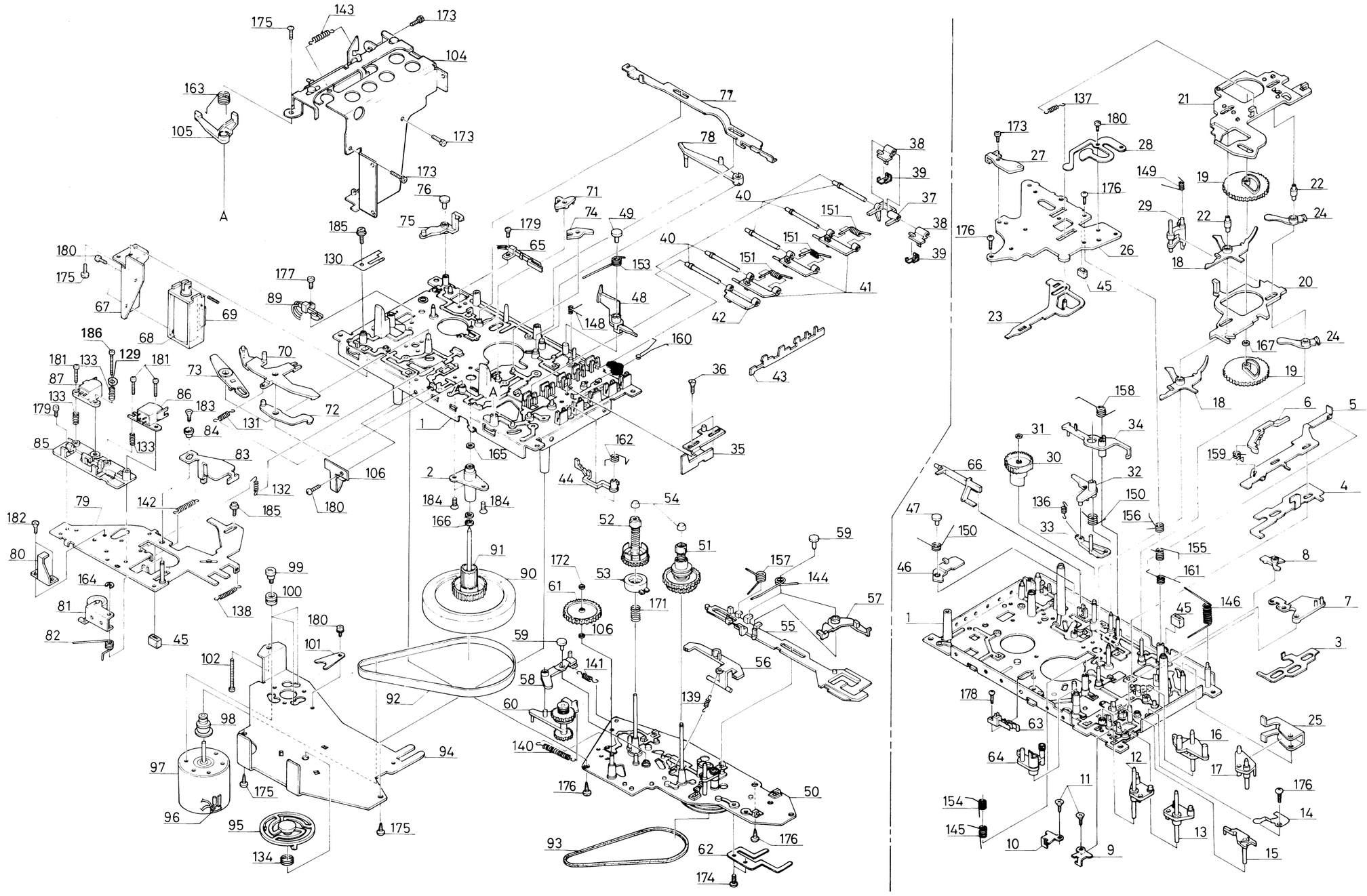


Fig. 16

Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VKL1195-00B	Chassis Base Sub Ass'y		1
2	VKF4109-00A	Capstan Metal Ass'y		1
3	VKL4884-001	Play Trigger Bar		1
4	VKL4885-001	FF Trigger Bar		1
5	VKL4924-001	Stop Trigger Bar		1
6	VKS4278-001	Cue Lever		1
7	VKS3135-001	Trigger Bar Cover		1
8	VKS4321-001	Trigger Bar Cover (B)		1
9	VKL4935-001	FF Safety Lever		1
10	VKL4936-001	Rew. Safety Lever		1
11	VKZ4161-001	Special Screw		2
12	VKS4281-00A	Rew. Lever Ass'y		1
13	VKS4283-00A	FF Lever Ass'y		1
14	VKY4206-001	Play Lever Spring		1
15	VKS4285-001	Play Lever		1
16	VKS4286-00A	Rec. Lever Ass'y		1
17	VKS4288-00A	Pause Lever Ass'y		1
18	VKS4290-001	Trigger Lever		2
19	VKR3101-001	Drive Gear		2
20	VKS3129-001	Play Drive Base		1
21	VKS3130-001	FF Drive Base		1
22	VKH4303-001	Collar		2
23	VKL3281-001	Obstructive Board		1
24	VKS4291-001	Pressure Arm		2
25	VKL4917-001	FF Connecting Arm		1
26	VKL3282-001	Cover		1
27	VKL4933-001	Base Guide		1
28	VKY4205-001	Lever Return Spring		1
29	VKS4292-00A	Lock Arm Ass'y		1
30	VKR4193-001	Stop Gear		1
32	VKS4294-001	Kick Lever		1
33	VKS4295-001	Select Arm		1
34	VKS4296-001	Stop Trigger Lever		1
35	VKL4972-00A	R. Safety Bar Ass'y		1
36	VKZ4162-001	Special Screw		2
37	VKS4297-001	FF Button Lever		1
38	VKS4298-001	FF Button		2
39	VKY4207-001	FF Spring Plate		2
40	VKH3012-007	Shaft		5
41	VKS4299-001	Play Button		3
42	VKS4300-001	Pause Button		1
43	VKS4340-001	Button Lock Cam		1
44	VKS4317-001	Rec. Stopper		1
45	VKZ4146-001	Rubber Stopper		2
46	VKS4303-001	Pause Lock Cam		1
47	VKS4348-001	Lock Bush		1
48	VKS4346-001	Release Lever		1
49	VKS4348-001	Lock Bush		1
50	VKL2131-00B	Reel Disk Bracket		1
51	VKR4196-00B	Reel Ass'y	Take-up	1
52	VKR4208-00B	"	Supply	1
53	VKS4247-001	Back Tension Base		1
54	VKR4160-002	Reel Stopper		2
55	VKS3131-002	FF Bar		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
56	VKS3132-001	Brake Arm		1
57	VKS4337-001	Rew. Spring Holder		1
58	VKS4306-001	FF Arm		1
59	VKS4348-001	Lock Bush		2
60	VKS4307-00A	Rew. Arm Ass'y		1
61	VKR4202-001	Rew. Gear		1
62	VKY4203-001	Return Spring		1
63	VSH1105-002	Leaf Switch	Motor	1
64	VKS4304-002	Switch Lever		1
65	VSH1108-001	Switch Ass'y	Muting	1
66	VKS4310-001	Auto Stop Lever		1
67	VKL4887-001	Solenoid Bracket		1
68	VGP0401-004	Solenoid		1
69	10E1	Si. Diode		1
70	VKS3134-001	Pause Lever (1)		1
71	VKS4313-001	" (2)		1
72	VKS4314-001	Cue Review Lever		1
73	VKS4315-001	Switch Lever		1
74	VKS4316-001	Pause Lever (3)		1
75	VKS4347-001	Rec. Safety Lever		1
76	VKS4348-001	Lock Bush		1
77	VKL4999-001	Rec. Slide Bar		1
78	VKS4311-001	Muting Arm		1
79	VKL3279-00A	Slide Base Ass'y		1
80	VKL4922-001	Stopper	Cassette	1
81	VKP4115-00A	Pinch Roller Arm Ass'y		1
82	VKW4253-002	Pinch Roller Spring		1
83	VKL4923-001	Slide Base Arm		1
84	VKH3013-007	Flange Collar		1
85	VKS2111-002	Head Mount Base		1
86	VGH0421-005	R/P Head		1
87	VGH0212-103	E Head		1
88	VMZ0008-00A	Wire Ass'y	Earth	1
89	VSH1102-001	Switch Ass'y	Pause	1
90	VKF3117-00A	Flywheel Capstan		1
91	VKR3102-001	Flywheel Gear		1
92	VKB3001-013	Belt	Capstan	1
93	VKB3000-013	"	Take-up	1
94	VKL3303-001	F.M. Bracket		1
95	VKS4232-001	Flywheel Holder		1
96	QET41HR-105N	E. Capacitor	1 μF 50 V Motor	1
97	MHI-5R2CHY	Motor		1
98	VKR4226-001	Motor Pulley		1
99	VKZ4109-001	Motor Screw		3
100	VKZ4130-001	Cushion Rubber		3
101	VKS4357-001	Rubber Stopper		1
102	VKZ4009-002	Special Screw	Earth	1
103	VKZ4001-010	Wire Clamp		1
104	VKL3294-00B	Bracket Ass'y (R)		1
105	VKS4351-001	Eject Safety Lever		1
106	VKY4213-001	Solenoid Spring		1
107	THS000489-02	Head Label	E. Head	1
108	VND4012-002	Head Plate	R/P Head	1
129	WSS2000N	Washer	E. Head	1
130	VKY4227-001	Head Base Spring		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
131	VKW3000-004	Tension Spring	Pause Lever (1)	1
132	" -021	"	Slide Base	1
133	VKW3001-020	Compression Spring	R/P, E. Head	3
134	" -048	"	F.M. Bracket	1
135	VKW3002-004	Tension Spring	Take-up Gear	1
136	" -029	"	Kick Lever Select Arm	1
137	" -045	Torsion Spring	Obstructive Board	1
138	" -063	Tension Spring	Slide Base	1
139	" -064	"	Brake Arm	1
140	" -065	"	Rew. Arm Ass'y	1
141	" -069	"	FF Arm	1
142	" -084	"	Slide Base Arm	1
143	" -086	"	Eject	1
144	VKW3006-002	Torsion Spring	FF Bar	1
145	" -004	"	Trigger Lever	1
146	" -005	"	FF Drive Base	1
147	—			—
148	VKW3006-007	Torsion Spring	Button Lock Cam	1
149	" -008	"	Lock Cam	1
150	" -009	"	Kick Lever	1
151	" -010	"	Play Button	3
152	" -011	"	Rubber Stopper	1
153	" -012	"	Release Lever	1
154	VKW4254-001	"	Trigger Lever	1
155	VKW4255-001	"	Play	1
156	VKW4256-001	"	FF	1
157	VKW4258-001	"	Reel Stopper	1
158	VKW4261-001	"	Stop Trigger Lever	1
159	VKW4262-001	"	Cue Lever	1
160	VKW4263-001	"	FF, Rew Safety	1
161	VKW4267-001	"	Stop Trigger	1
162	VKW4274-001	"	R. Safety Bar	1
163	VKW4283-001	"	Eject Safety	1
164	REE2500	E-Ring	Pinch Roller	1
165	Q03093-528	Washer	Oil Cut	1
166	" -814	"	Thrust	1
167	(This DWG.)	"	Drive Gear	1
168	"	Special Washer	Stop Gear	1
170		Special Washer	Take-up Gear (1)	1
171	"	Spring	Back Tension Base	1
172	"	Washer	Rew. Gear	1
173	LPSP2604Z	Ass'y Screw	Cover x 1, Bracket Ass'y (R) x 3	4
174	SBSB2604Z	Tap. Screw	Return Spring	2
175	SBSB2608Z	Screw	Switch Lever x 2, Solenoid Bracket x 1, F.M. Bracket x 2, Bracket Ass'y (R) x 1	6
176	SDSB2608Z	"	FF Lever Ass'y x 1, Cover x 2	3
177	SPSP2605Z	"	Switch Ass'y	1
178	SPSB2608Z	Tap. Screw	Leaf Switch	1
179	SPSP2004Z	Screw	Switch Ass'y x 1, Head Mount Base x 1	2
180	SPSP2604Z	"	Cover x 1, Solenoid Spring x 1, Solenoid Bracket x 2, Rubber Stopper x 1	5
181	SPSX2010N	"	R/P, E. Head	3
182	SSSP2003Z	"	Stopper	2
183	SSSP2604N	"	Slide Base Arm	1
184	SSSP2604Z	"	Capstan Metal Ass'y	3
185	SWSP2606Z	"	Switch Ass'y	2
186	SPSX2016N	"	E. Head	1

Main Amp P.W. Board Parts List

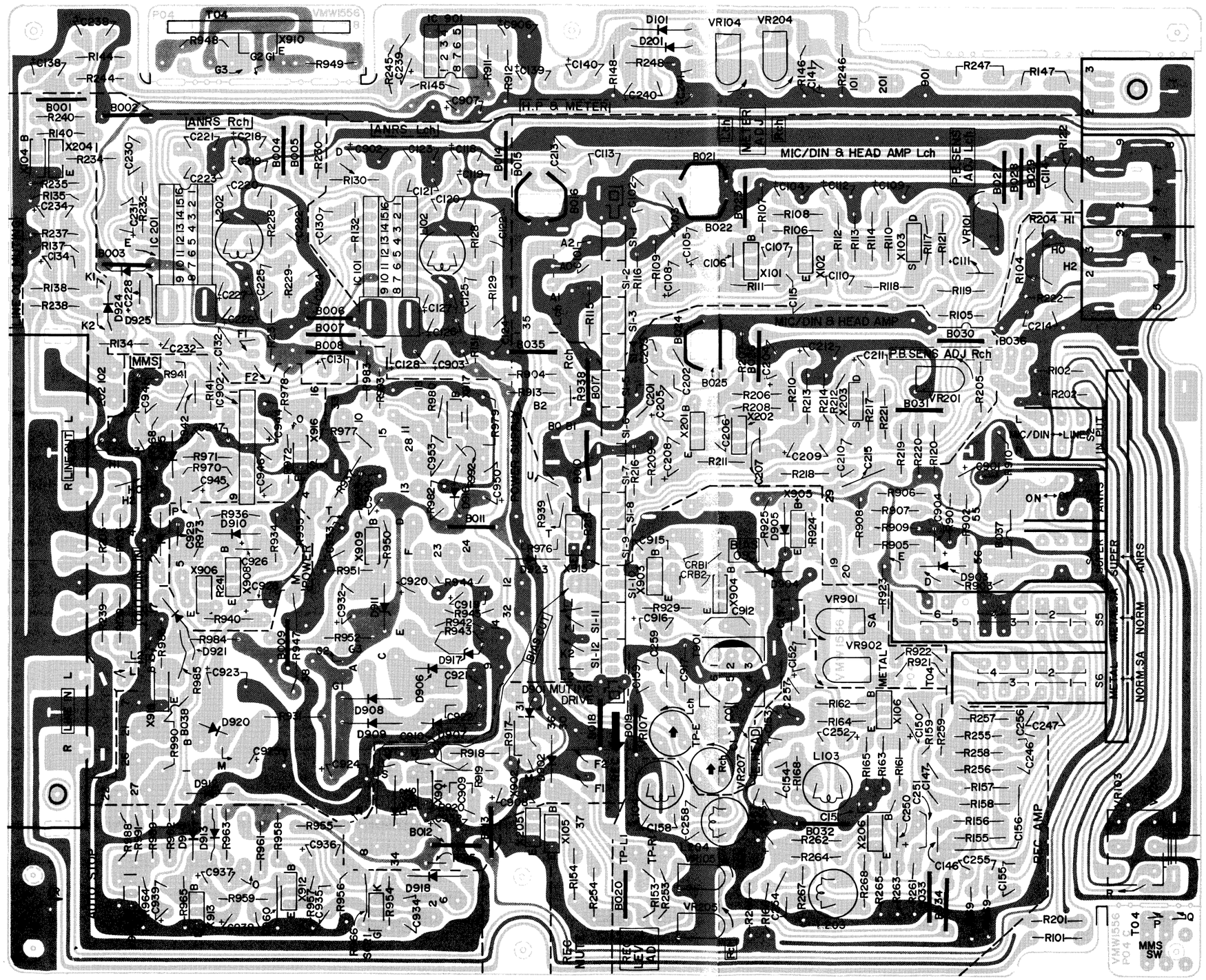
⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
		VMW1156-104	P. W. Board	No supply as parts ass'y	1
R101, 201, 108, 208, 159, 259		QRD141J-683S	C. Resistor	68 kΩ 1/4 W	6
R102, 202, 984,		" -333S	"	33 kΩ "	3
R103,203,951,954,955,959, 966		" -102S	"	1 kΩ "	7
R104, 204		" -153S	"	15 kΩ "	2
R105, 205		" -181S	"	180 Ω "	2
R106, 206		" -824S	"	820 kΩ "	2
R107, 207, 145, 245		" -154S	"	150 kΩ "	4
R109, 209, 917		" -682S	"	6.8 kΩ "	3
R110, 210, 903		" -393S	"	39 kΩ "	3
R111, 211, 141, 241		" -184S	"	180 kΩ "	4
R112, 212, 119, 219, 140, 240, 154, 254, 908, 956, 963, 964, 968, 971		" -103S	"	10 kΩ "	14
R113, 213, 165, 265, 953, 922		" -152S	"	1.5 kΩ "	6
R114, 214, 115, 215, 147, 247, 167, 267, 168, 268, 920		" -151S	"	150 Ω "	11
R116, 216, 128, 228		" -821S	"	820 Ω "	4
R117, 217, 918, 957, 923		" -272S	"	2.7 kΩ "	5
R118, 218		QRD147J-302S	"	3 kΩ "	2
R120, 220, 134, 234, 138, 238, 139, 239, 146, 246, 166, 266, 913, 936, 983, 985		QRD141J-332S	"	3.3 kΩ "	16
R121, 221, 130, 230		QRD147J-155S	"	1.5 MΩ "	4
R122, 222, 164, 264, 919		QRD141J-223S	"	22 kΩ "	5
R129, 229		" -680S	"	68 Ω "	2
R131, 231		QRD147J-105S	"	1 MΩ "	2
R132, 232, 924		QRD141J-182S	"	1.8 kΩ "	3
R135, 235		" -822S	"	8.2 kΩ "	2
R137, 237, 155, 255, 163, 263, 169, 269, 901, 905, 911, 912, 916, 950,		" -104S	"	100 kΩ "	14
R144, 244, 938		QRD147J-563S	"	56 kΩ "	3
R153, 253, 935, 941, 948		QRD141J-472S	"	4.7 kΩ "	5
R156, 256, 960, 962, 965		" -563S	"	56 kΩ "	5
R157, 257		" -823S	"	82 kΩ "	2
R158, 258		" -224S	"	220 kΩ "	2
R161, 261		" -273S	"	27 kΩ "	2
R162, 262		QRD147J-125S	"	1.2 MΩ "	2
R902		QRD141J-473S	"	47 kΩ "	1
R906		QRD147J-561S	"	560 Ω "	1
R907		" -392S	"	3.9 kΩ "	1
R909		" -123S	"	12 kΩ "	1
R915		QRD143J-332S	"	3.3 kΩ "	1
R921, 925	⚠	QRD149J-100S	Fail Safety Resistor	10 Ω "	2
R929	⚠	" -100S	C. Resistor	10 Ω "	1
R931	⚠	QRD129J-152	Fail Safety Resistor	1.5 kΩ 1/2 W	1
R934		QRD147J-681S	C. Resistor	680 Ω 1/4 W	1
R939		QRD143J-473S	"	47 kΩ "	1
R940	⚠	QRD149J-4R7S	"	4.7 Ω "	1
R949	⚠	QRD129J-4R7	Fail Safety Resistor	4.7 Ω 1/2 W	1
R952		QRD147J-122S	C. Resistor	1.2 kΩ "	1
R958, 961		QRD141J-562S	" "	5.6 kΩ "	2
R969		" -224S	"	220 kΩ "	1
R973	⚠	QRD149J-471S	"	470 Ω "	1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
R976		QRD143J-103S	C. Resistor	10 kΩ 1/4 W	1
R977		" -821S	"	820 Ω "	1
R988		QWY123-019	Bus Wire		1
C101, 201, 103, 203, 114, 214, 115, 215		QCS11HJ-221	C. Capacitor	220 pF 50 V	8
C102, 202		" -101	"	100 pF "	2
C104, 204		QEB41EM-106M	E. Capacitor (Low Leak)	10 μF 25 V	4
C105, 205, 127, 227		" -475M	" "	4.7 μF "	2
C106, 206		QCS11HK-471	C. Capacitor	470 pF 50 V	2
C107, 207		" -680	"	68 pF "	2
C108, 208, 109, 209		QET41AR-107N	E. Capacitor	100 μF 10 V	4
C110, 210		QFM41HJ-183	M. Capacitor	0.018 μF 50 V	2
C112, 212, 153, 253, 939		QET41ER-336N	E. Capacitor	33 μF 25 V	5
C113, 213		QCS11HK-561	C. Capacitor	560 pF 50 V	2
C118, 218, 119, 219, 111, 211		QEB41HM-105M	E. Capacitor (Low Leak)	1 μF "	6
C120, 220, 935		QEN41HA-105N	E. Capacitor	1 μF "	3
C121, 221, 941, 942		QFM41HK-103	M. Capacitor	0.01 μF "	4
C122, 222		QCS11HJ-471	C. Capacitor	470 pF "	2
C123, 223		QFM11HJ-682	M. Capacitor	0.0068 μF "	2
C124, 224		QFM41HJ-273	"	0.027 μF "	2
C125, 225		QFM11HJ-222	"	0.0022 μF "	2
C126, 226		QEB41HM-334M	E. Capacitor (Low Leak)	0.33 μF "	2
C128, 228, 933		QET41CR-107N	E. Capacitor	100 μF 16 V	3
C130, 230		QFM41HJ-332	M. Capacitor	0.0033 μF 50 V	2
C131, 231, 132, 232, 906, 936		QET41HR-475N	E. Capacitor	4.7 μF "	6
C134, 234, 138, 238, 150, 250, 152, 252, 901, 902		" -105N	"	1 μF "	10
C139, 239		QET41CR-476N	"	47 μF 16 V	2
C146, 246		QFM41HJ-102	M. Capacitor	0.001 μF 50 V	2
C147, 247		QCS11HJ-681	C. Capacitor	680 pF "	2
C151, 251		QFM41HJ-124	M. Capacitor	0.12 μF "	2
C154, 254		" -103	"	0.01 μF "	2
C155, 255		" -472	"	0.0047 μF "	2
C156, 256		QCS11HJ-271	C. Capacitor	270 pF "	2
C157, 257		" -391	"	390 pF "	2
C158, 258		QCS12HJ-151	"	150 pF 500 V	2
C159, 259		QCY12HK-221	"	220 pF "	2
C904, 909, 926, 928, 945, 929		QET41HR-106N	E. Capacitor	10 μF 50 V	6
C907, 908		QET41ER-227N	"	220 μF 25 V	2
C910		QCF11HP-102	C. Capacitor	0.001 μF 50 V	1
C912		QFP82AJ-103	P.P. Capacitor	0.01 μF 100 V	1
C915		QFM41HK-153	M. Capacitor	0.015 μF 50 V	1
C916		QET41HR-474N	E. Capacitor	0.47 μF "	1
C917		QFP82XJ-152	P.P. Capacitor	0.0015 μF	1
C921, 922		QCF11HP-103	C. Capacitor	0.01 μF 50 V	2
C923	⚠	QET41HR-108N	E. Capacitor	1000 μF "	1
C924, 925	⚠	QET41HR-477N	"	470 μF "	2
C932		QET41CR-227N	"	220 μF 16 V	1
C934		QCF11HP-223	C. Capacitor	0.022 μF 50 V	1
C937		QET41ER-476N	E. Capacitor	47 μF 25 V	1
C938		" -226N	"	22 μF "	1
C940		" -107N	"	100 μF "	1
C943		QFM41HK-154	M. Capacitor	0.15 μF 50 V	1
C944		QET41HR-104N	E. Capacitor	0.1 μF "	1
C946		QEN41HA-226N	"	22 μF "	1
CRB1, 2		EXR-P472M393W	C.R. Block		2

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
VR101, 201		QVP8A0B-054A	V. Resistor	50 kΩ or QVP8A0B-054	2
VR103, 203		QVL4A7A-054V	"	50 kΩ	2
VR105, 205		QVP8A0B-024A	"	20 kΩ or QVP8A0B-024	2
VR107, 207		QVP4A0B-104	"	100 kΩ	2
VR901		QVP8A0B-053A	"	5 kΩ or QVP8A0B-053	1
VR902		" -032A	"	or QVP8A0B-032A	1
		TAZ336499-04	Volume Lug	for VR103, 203	1
L102, 202, 103, 203		VQP0001-562	Inductor		4
L104, 204		" -183	"		2
L901		VQP0001-102	Inductor		1
T901		VQH1009-018	Osc. Coil		1
		VYH4514-002	Shield Case	for T901	1
S1		QSSC201-105R	Slide Switch	R/P	1
S2–S6		QSP0251-103	Push Switch Ass'y		1
		QSP0219-058	"	MUSIC SCAN	1
		VMJ5004-002	MIC & H.P. Jack Ass'y		1
		VMJ6003-002	PIN & DIN Jack Ass'y		1
D901–904, 912–915, 919, 920, 923, 924, 925		1SS148	Si. Diode	or MA150	13
D905		KB262	Varistor		1
D906–909	⚠	DS135DKB3	Si. Diode	or 10E1-B	4
D910		RD6.2E(B3)	Zener Diode		1
D911		RD10E(B3)	"		1
D918		10E1	Si. Diode		1
D921		10E1-B	"		1
SCR1		03P05M	SCR		1
X101, 201, 102, 202, 106, 206		2SC732TM(BL)	Transistor		6
X103, 203		2SK246(GR, BL)	FET		2
X104, 204		2SC1815(GR, BL)	Transistor		2
X105, 205		2SC2878(A, B)	"	or 2SD1020(J,H,F,E)	2
X901, 908, 912, 914, 915, 918		2SC1684(R, S)	"	or 2SC1815(GR, BL)	6
X902		2SA564(R, S)	"	or 2SA1015(Y)	1
X903, 904		2SD863(E, F)	"	or 2SC1318(Q, R)	2
X905		2SD471(LA, KA)	"	or 2SC1383(R, S)	1
X906		2SB605(LA, KA)	"	or 2SA684(R, S)	1
X909, 913		2SC1685(R, S)	"	or 2SC1815(GR, BL)	2
IC101, 201		AN7362	IC		2
IC901		AN6552	"		1
IC902		BA335	"		1
		VKL5002-001	Heat Sink	for X910	1
		LPSP3008Z	Screw	"	1
		E43727-002	Wrapping Tab		29
		VMZ0005-001	Post Pin		1
		QWY123-019	Bus Wire		33
		V44611-00B	Formed Bus Wire		1

Main Amp. P.W. Board Parts



	E. Voltmeter			C. Tester		
	E	C	B	E	C	B
X901	0	21.3	0	0	21	0
X902	21.1	0	21.3	21.1	0	20.2
X903	0.72	16.6	0.89	0.7	16.7	0.9
X904	0.72	16.6	-0.03	0.7	16.7	0
X905	17.7	20.0	18.1	17.5	20.0	18.0
X906	15.4	14.1	14.8	15.0	14.0	14.0
X908	7.8	14.8	8.3	7.65	14.2	8.0
X909	11.3	29.5	11.9	11.5	27.8	12.0
X910	30.3	21.3	29.5	28.5	21.5	27.8
X912	0	21.3	0	0	21.4	0
X913	0	0	0.7	0	0	0.7
X914	0	1.2	0	0	1.2	0
X916	0	0.1	0.7	0	0	0.6
X917	11.1	20.0	11.3	11.1	20.0	11.3
X918	0	0	0.6	0	0	0.6

	E. Voltmeter			C. Tester		
	E	C	B	E	C	B
X101 102	1.2	2.1	1.7	1.2	1.9	10.5
X102 202	1.5	7.4	2.1	1.45	7.4	1.9
X103 203	Source 7.8	Gate 8.3	Drain 7.8	S 7.36	G 1.7	D 7.39
X104 204	0	0	0	0	0	0
X105 205	0	0	0	0	0	0
X106 206	0.81	8.4	1.4	0.8	6.62	1.1

Voltage values are measured by the following meter without input signal at NR SW = OFF, recording mode.

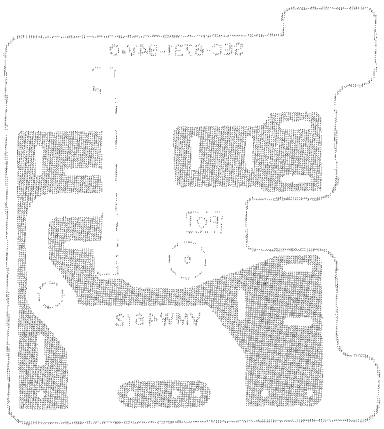
E. Voltmeter = Electronic Voltmeter

C. Tester = Circuit Tester (20kΩ/V impedance)
(less than 10V — 10V range
10V or more — 50V range)

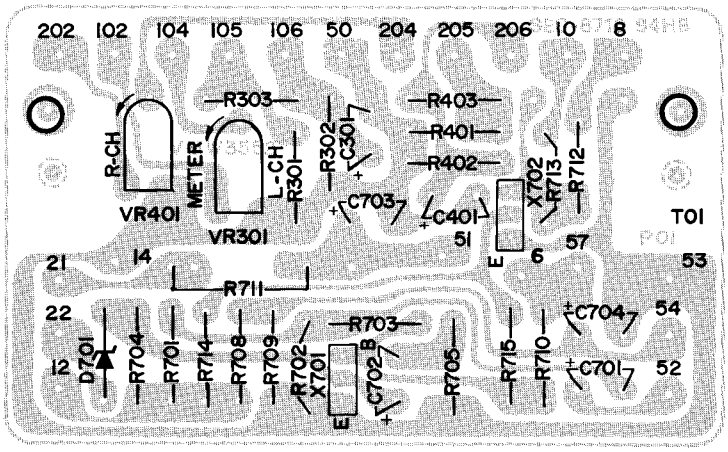
Fig. 17

Other P.W. Board Parts

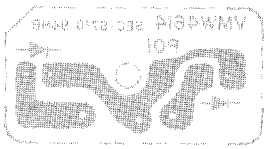
– Power Switch –



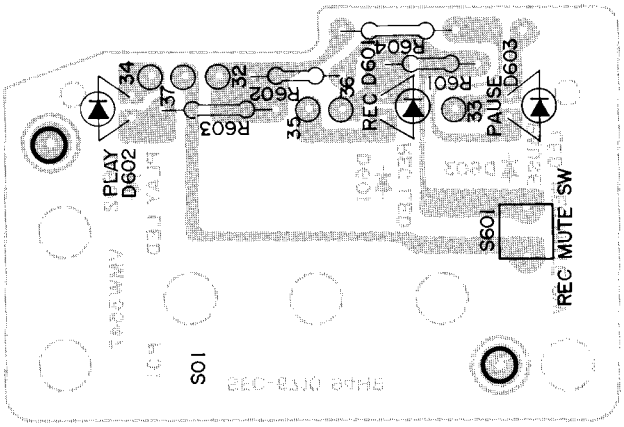
– Power Supply –



– L.E.D –



– Mecha Switch –



– Hall IC –

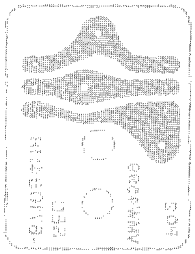


Fig. 18

Other P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
(Power Switch)					
		VMW4612-002	P.W. Board	No supply as parts ass'y	1
	⚠	QSP1110-305	Push Switch	KD-D35A/E	1
	⚠	" -305BS	"	KD-D35B	1
	⚠	" -308	"	KD-D35C/J	1
	⚠	" -306	"	KD-D35U	1
	⚠	QFZ9010-103	M.P. Capacitor	KD-D35A/B/E	1
	⚠	QCZ9014-103	"	KD-D35C/J	1
	⚠	QCZ9015-103	"	KD-D35U	1
	⚠	QRD149J-820S	Fail Safety Resistor		1
		E40130-001	Tab	KD-D35A/B/C/E/J	4
		" -001	"	KD-D35U	2
		VKS4354-001	Wire Clamp		1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
(Power Supply)					
		VMW3552-001	P.W. Board	No supply as parts ass'y	1
R301, 401		QRD147J-153S	C. Resistor	15 kΩ 1/4 W	2
R709		" -472S	"	4.7 kΩ "	1
R302, 402		" -123S	"	12 kΩ "	2
R303, 403, 710, 712, 713		" -104S	"	100 kΩ "	5
R701		" -474S	"	470 kΩ "	1
R703, 702		" -103S	"	10 kΩ "	2
R704		" -123S	"	12 kΩ "	1
R714		" -223S	"	22 kΩ "	1
R705		" -221S	"	220 Ω "	1
R708		" -222S	"	2.2 kΩ "	1
R711		QRG029J-680	"	68 Ω 2 W	1
R715		QRD147J-473S	"	47 kΩ 1/4 W	1
C301, 401		QET41ER-226N	E. Capacitor	22 μF 25 V	2
C701		QET41CR-336N	"	33 μF 16 V	1
C702, 703		QET41ER-107N	"	100 μF 25 V	2
VR301, 401		QVP8A0B-014A	V. Resistor	10 kΩ or QVP8A0B-014	2
		E43727-002	Wrapping Tab		21
D701		RD13E(B3)	Zener Diode		1
X701		2SC1684(R, S)	Transistor	or 2SC1815(GR, BL)	1
X702		2SC1684(R, S)	Transistor	or 2SC1815(GR, BL)	1
(Hall IC)					
		VMW4599-002	P.W. Board		1
IC701		DN6835	Hall IC		1
(Level Indicator)					
		LT-1011	L.E.D. Module		1
R321, 421		QRD147J-472S	C. Resistor	4.7 kΩ 1/4 W	2
C321, 421		QET41HR-105N	E. Capacitor	1 μF 50 V	2
C721		QET41ER-226N	"	22 μF 25 V	1
		QMV5005-008	Plug Ass'y		1
(LED)					
		VMW4614-001	P.W. Board		1
		SG240D	L.E.D.	Green (Super ANRS)	1
		SR540D(M, N)	"	Red (Power)	1
(Mecha. Switch)					
		VMW3547-002	P.W. Board		1
D602, 603		SG240D	L.E.D.	Green, D602, D603	2
		SR540D(M, N)	"	Red, D601	1
S601		QSP0022-003	Push Switch	Rec. Mute	1
R601		QRD147J-103S	C. Resistor	10 kΩ 1/4 W	1
R602		" -102S	"	1 kΩ "	1
R603		QRD121K-152	"	1.5 kΩ 1/2 W	1
R604		QRD141J-471S	"	470 Ω 1/4 W	1

Packing

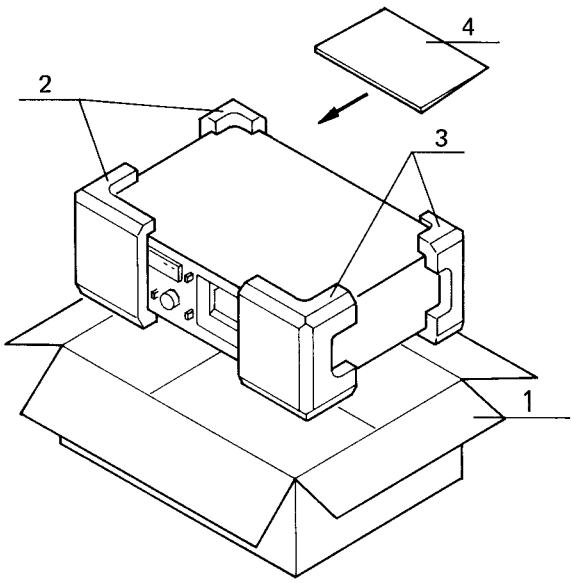


Fig. 19

Positions of controls and switch knobs at renew packing.

Power switch	:	OFF
REC level controls	:	MIN
Input switch	:	LINE
NR system switch	:	OFF
Tape select	:	SF/NORM
Music scan	:	OFF
Counter	:	000
Mecha. operation buttons	:	OFF

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1 – 3	VDP2086-001A	Carton Ass'y	KD-D35A/B/U	1
	" -003A	"	KD-D35C	1
	" -004A	"	KD-D35E	1
	" -005A	"	KD-D35J	1
1	VPD2086-J01	Carton	KD-D35A/B/U	1
	" -J02	"	KD-D35C	1
	" -J03	"	KD-D35E	1
	" -J04	"	KD-D35J	1
2	VPH3125-001	Cushion		1
3	VPH3126-001	"		1
	QPGA060-06005	Envelope	for Set	1
4	AP4056B-077	"	for Instruction Book	1
	TKS000501-08	Sheet	for Set	1
	AP4056A-036	Envelope	AC Cord , Provided Cord	3

Accessories

Parts No.	Parts Name	Remarks	Q'ty
VMP0002-00B	PIN Cord	KD-D35A/C/J/U	1
CN-201S	DIN Cord	KD-D35B/E	1
VYA4001-00A	Head Cleaning Stick		1
VNN0081-901	Instruction Book	KD-D35A/C/J/U	1
" -301	"	KD-D35B/E	1
BT20029B	Warranty Card	KD-D35A	1
BT20025D	"	KD-D35C	1
BT20047	"	KD-D35J	1
BT20047War	"	KD-D35U	1
BT20013C	Guarantee Certificate	KD-D35B	1
TJL000443-01	Seal	"	1
	BEAB Label	"	1
T44362-001	CSA Mark	KD-D35C	1
TLT000505-01	UL/CSA Caution Label	KD-D35C/J	2
VNC5004-001	Mark Sticker	KD-D35B/E	1
BT20046	Special Reply Card	KD-D35-D35J/U for PX, EES	1
BT20044B	Safety Instruction	"	1
E7795-1	EP Mark	KD-D35U	1
V04062-001	Siemens Plug	"	1
T46328-001	Caution Label	"	1
" -003	"	KD-D35B	1
VND4016-001	Metal Sticker		1
VND4013-001	Warning Label	KD-D35B/E	1
QZL1002-003BS	"	KD-D35B	1
VDN4037-001	f. Mark Label	KD-D35E	1
VNC5311-101	Caution Card	KD-D35U	1
VNC0405-004	Caution Card		1

JVC
VICTOR COMPANY OF JAPAN, LIMITED
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho Maebashi-city 371, Japan

Printed in Japan
— 5606—S—